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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,454	02/26/2004	Sarvar Patel	29250-002013/US	4912
	7590 03/03/200 CKEY & PIERCE, P.L	EXAMINER		
P.O. Box 8910			TOLENTINO, RODERICK	
Reston, VA 20195			ART UNIT	PAPER NUMBER
			2134	
			MAIL DATE	DELIVERY MODE
			03/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/786,454	PATEL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Roderick Tolentino	2134				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>30 No</u>	ovember 2007.					
	· · · · · · · · · · · · · · · · · · ·					
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.						
,— , , , — , , , , , , , , , , , , , ,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	_					
6)⊠ Claim(s) <u>1-24</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 26 February 2004 is/are: a) accepted or b) objected to by the Examiner.						
,						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
		(1)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atom, pphoduon				

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DETAILED ACTION

1. Claims 1 - 24 are pending.

Response to Arguments

- 2. Applicant's arguments with respect to claims 1 and 24 and their amended matter, have been considered but are moot in view of the new ground(s) of rejection, as necessitated by amendment made by applicant on 11/30/2007.
- 3. Applicant's arguments with respect to claims 1 and 24 and the limitation of "a value of a second cryptosync," are not persuasive.
- 4. Applicant argues that Rezaiifar fails to teach "a value of a second cryptosync," in claims 1 and 24. Applicant respectfully disagrees. Rezaiifar teaches deriving a value of a first cryptosync for the communication session based on a value of a second cryptosync (Rezaiifar, Col. 2 Lines 25 38, creates two cryptosync values and Col. 2 Lines 39 49). Rezaiifar discusses that a cryptosync exists on the transmission end and the receiving end, thus there would be 2 cryptosync values. They are derived from each other since they both need to be synchronized together.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically teachd or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 1 – 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rezaiifar et al. U.S. Patent No. (6,980,658) in view of Boneh et al. U.S. Patent No. (6,134,660).

7. As per claims 1 and 24, Rezaiifar teaches deriving a value of a first cryptosync for the communication session based on a value of a second cryptosync (Rezaiifar, Col. 2 Lines 25 – 38, creates two cryptosync values), the second cryptosync having a longer life than the first cryptosync (Rezaiifar, Col. 4 Lines 46 – 62, cryptosyncs are time values and its value will vary depending on transmitted data, therefore one value will last longer than another) but fails to teach value having a life limited to the communication session and values having extending over multiple communication session. However, in an analogous art teach value having a life limited to the communication session and values having extending over multiple communication session (Boneh, Col. 3 Lines 29 - 45, various expiration times for encryption keys)

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art, to use Boneh's method for revoking computer backup files using cryptographic techniques with Rezaiifar's method and apparatus for encrypting transmissions in a communication system because it offers the advantage of preventing the loss of data (Boneh's Col. 1 Lines 12 - 20).

8. As per claim 2, Rezaiifar teaches the second cryptosync is used for message encryption by at least one of the two devices (Rezaiifar, Col. 3 Lines 36 – 45, mobile devices and base stations).

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9. As per claim 3, Rezaiifar teaches the second cryptosync is used for verifying message integrity by at least one of the two devices (Rezaiifar, Col. 2 Lines 39 – 48, verification).

- 10. As per claim 4, Rezaiifar teaches the second cryptosync is used for verifying message integrity by at least one of the two devices (Rezaiifar, Col. 2 Lines 39 48, verification).
- 11. As per claim 5, Rezaiifar teaches the second cryptosync changes between communication sessions (Rezaiifar, Col. 6 Lines 41 44, different cryptosyncs).
- 12. As per claim 6, Rezaiifar teaches deriving step derives the first cryptosync as at least a portion of the second cryptosync (Rezaiifar, Col. 2 Lines 25 38, creates two cryptosync values).
- 13. As per claim 7, Rezaiifar teaches the deriving step derives the first cryptosync as at least a portion of the second cryptosync and a fixed bit sequence (Rezaiifar, Col. 4 Lines 46 62, bit sequence).
- 14. As per claim 8, Rezaiifar teaches the deriving step derives most significant bits of the first cryptosync as the portion of the second cryptosync and derives least significant bits of the first cryptosync as the fixed bit sequence (Rezaiifar, Col. 4 Lines 46 62, bit sequence).
- 15. As per claim 9, Rezaiifar teaches the fixed bit sequence is a string of 0s (Rezaiifar, Col. 9 Lines 11 22, EID value of Zero).
- 16. As per claim 10, Rezaiifar teaches the deriving step derives a 32 most significant bits of the first cryptosync as the second cryptosync and derives a 32 least significant

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bits of the first cryptosync as a string of 0s (Rezaiifar, Col. 9 Lines 11 - 22, EID value of Zero).

- 17. As per claim 11 Rezaiifar teaches the deriving step derives a portion of the first cryptosync as the second cryptosync (Rezaiifar, Col. 2 Lines 25 38, creates two cryptosync values).
- 18. As per claim 12, Rezaiifar teaches the deriving step derives a first portion of the first cryptosync as the second cryptosync and derives a second portion of the first cryptosync as a fixed bit sequence (Rezaiifar, Col. 4 Lines 46 62, bit sequence).
- 19. As per claim 13, Rezaiifar teaches the fixed bit sequence is a string of 0s (Rezaiifar, Col. 9 Lines 11 22, EID value of Zero).
- 20. As per claim 14, Rezaiifar teaches the deriving step comprises: performing a pseudo-random function on the second cryptosync; and generating the first cryptosync from output of the pseudo-random function (Rezaiifar, Col. 8 Lines 15 21, randomly chosen).
- 21. As per claim 15, Rezaiifar teaches the generating step generates the first cryptosync as the output of the pseudo-random function (Rezaiifar, Col. 8 Lines 15 21, randomly chosen).
- 22. As per claim 16, Rezaiifar teaches the deriving step is performed at a base station (Rezaiifar, Col. 3 Lines 36 45, mobile devices and base stations).
- 23. As per claim 17, Rezaiifar teaches the deriving step is performed at a mobile station (Rezaiifar, Col. 3 Lines 36 45, mobile devices and base stations).

24. As per claim 18, Rezaiifar teaches encrypting a frame of information to send from the at least one of the two devices using the first cryptosync (Rezaiifar, Col. 2 Lines 19 – 23, encryption).

- 25. As per claim 19, Rezaiifar teaches the frame of information is a radio link protocol, RLP, frame (Rezaiifar, Col. 6 Lines 45 56, RLP frames).
- 26. As per claim 20, Rezaiifar teaches incrementing the first cryptosync after the encrypting step (Rezaiifar, Col. 2 Lines 38 48, incrementing).
- 27. As per claim 21, Rezaiifar teaches decrypting a frame of information received at the at least one of the two devices using the first cryptosync (Rezaiifar, Col. 5 Lines 56 67, decryption).
- 28. As per claim 22, Rezaiifar teaches the frame of information is a radio link protocol, RLP, frame (Rezaiifar, Col. 6 Lines 45 56, RLP frames).
- 29. As per claim 23, Rezaiifar teaches incrementing the first cryptosync after the decrypting step (Rezaiifar, Col. 2 Lines 38 48, incrementing).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roderick Tolentino whose telephone number is (571) 272-2661. The examiner can normally be reached on Monday - Friday 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roderick Tolentino

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Examiner Art Unit 2134

Roderick Tolentino /R. T./ Examiner, Art Unit 2134

/Kambiz Zand/ Supervisory Patent Examiner, Art Unit 2134